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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,598	02/26/2002	Hongfeng Yin	10010924-1	7083
7590 02/25/2005			EXAMINER	
AGILENT TECHNOLOGIES, INC.			THERKORN, ERNEST G	
Legal Department, DL429 Intellectual Property Administration P.O. Box 7599 Loveland, CO 80537-0599			ART UNIT	PAPER NUMBER
			1723	
			DATE MAILED: 02/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		h/			
	Application No.	Applicant(s)			
•	10/085,598	YIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ernest G. Therkorn	1723			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a rep eply within the statutory minimum of thirty (d will apply and will expire SIX (6) MONTH ute, cause the application to become ABAI	ly be timely filed 30) days will be considered timely. 15 from the mailing date of this communication. NDONED (35 U.S.C. § 133)			
Status					
1) Responsive to communication(s) filed on 18	January 2005.				
_					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-20,26,27,29-31 and 36-38 is/are 4a) Of the above claim(s) 6 and 8-15 is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5, 7, 16-20, 26, 27, 29-31, and 36 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	vithdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) The oath or declaration is objected to by the specific	ccepted or b) objected to by ne drawing(s) be held in abeyance ection is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
) Notice of References Cited (PTO-892)		mmary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 		Mail Date rmal Patent Application (PTO-152) .			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/085,598

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 7, 16-20, 26, 27, 29-31, and 36-38 are rejected under 35 U.S.C. 102(E) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546). The claims are considered to read on either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546). However, if a difference exists between the claims and either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546), it would reside in optimizing the elements of either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6,033,546). It would have been obvious to optimize the elements of either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6,033,546) to enhance separation.

Claims 1-5, 7, 16-20, 26, 27, 29-31, and 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546) in view of Ramsey (U.S. Patent No. 6,110,343) and Parce (U.S. Patent No. 6,012,902). At best, the claims differ from either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546) in reciting use of pressure driven flow. Ramsey (U.S. Patent No. 6,110,343) (column 1, lines 10-18) discloses that

a hydraulic force is an alternative to use of an electrically driven force in delivering fluids through the channels of a microchip. Parce (U.S. Patent No. 6,012,902) (column 3, lines 6-32) discloses that use of a micropump to generate a flow is useful where pressure based flow is particularly desirable, where electric fields are prohibited, and where materials are not easily or predictably transported by electrokinetic flow. It would have been obvious to use pressure driven flow in either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6,033,546) because Ramsey (U.S. Patent No. 6,110,343) (column 1, lines 10-18) discloses that a hydraulic force is an alternative to use of an electrically driven force in delivering fluids through the channels of a microchip and because Parce (U.S. Patent No. 6,012,902) (column 3, lines 6-32) discloses that use of a micropump to generate a flow is useful where pressure based flow is particularly desirable, where electric fields are prohibited, and where materials are not easily or predictably transported by electrokinetic flow.

The remarks urge that Moon (U.S. Patent No. 6,245,227) does not disclose gradient generation means. However, Moon (U.S. Patent No. 6,245,227) on column 31, lines 27-35 discloses providing two additional reservoirs to produce gradient elution. As such, gradient generation means is considered to be disclosed in Moon (U.S. Patent No. 6,245,227).

The remarks urge that Moon (U.S. Patent No. 6,245,227)'s pumping is electrokinetic pumping and is not pressure driven flow. However, the claimed pressure driven flow would read on electrokinetic pumping. A pressure is inherently created

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during pumping. Accordingly, the phase "pressure driven flow" reads on the pressure that is created by voltage differences.

The remarks urge patentability based upon the allegation that a cover is not disclosed by Moon (U.S. Patent No. 6,245,227). However, a cover is disclosed in Moon (U.S. Patent No. 6,245,227) on column 25, lines 14-16 to enclose the reservoir and separation channel.

The remarks urge patentability over Moon (U.S. Patent No. 6,245,227) based upon use of a plurality of inlets. Moon (U.S. Patent No. 6,245,227) shows multiple inlets in Figure 35 prior to separation posts 416M.

The remarks urge patentability over Ramsey (U.S. Patent No. 6, 033,546) based upon the use of mixing conduits. However, the claims do not appear to recite the use of a mixing conduit.

The remarks urge that it would not be obvious to have pressure driven flow in either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546) based upon the teachings of Ramsey (U.S. Patent No. 6,110,343) and Parce (U.S. Patent No. 6,012,902). However, Ramsey (U.S. Patent No. 6,110,343) (column 1, lines 10-18) discloses that a hydraulic force is an alternative to use of an electrically driven force in delivering fluids through the channels of a microchip. Parce (U.S. Patent No. 6,012,902) (column 3, lines 6-32) discloses that use of a micropump to generate a flow is useful where pressure based flow is particularly desirable, where electric fields are prohibited, and where materials are not easily or predictably transported by electrokinetic flow. As such, it would have been obvious to use pressure driven flow in

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either Moon (U.S. Patent No. 6,245,227) or Ramsey (U.S. Patent No. 6, 033,546) because Ramsey (U.S. Patent No. 6,110,343) (column 1, lines 10-18) discloses that a hydraulic force is an alternative to use of an electrically driven force in delivering fluids through the channels of a microchip and because Parce (U.S. Patent No. 6,012,902) (column 3, lines 6-32) discloses that use of a micropump to generate a flow is useful where pressure based flow is particularly desirable, where electric fields are prohibited, and where materials are not easily or predictably transported by electrokinetic flow.

Claims 6 and 8-15 have been withdrawn from consideration as being drawn to a non-elected species.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is (703) 872-9306.

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Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Ernest G. Therkorn Primary Examiner

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EGT

February 22, 2005